

Claims

1. An automobile antenna mounted on an outside sheet panel (P) of an automobile and comprising a base member (1) that supports electrical parts for reception or transmission, a cover member (3) that receives the electrical parts for reception or transmission, and a pad member (2) made of an elastic material, and wherein the pad member (2) is fitted internally into the cover member (3) while covering an underside and an outer peripheral portion of the base member (1).

2. The automobile antenna according to claim 1, wherein the base member (1) comprises on an outer periphery thereof a tapered surface (14) diverging downward and a flange (15) projecting outward from a lower end of the tapered surface, the pad member (2) comprises, in the vicinity of an outer peripheral edge thereof, a fitting portion (22) for the cover member (3), an annular rib (25) for fixation, which adjoins the fitting portion (22) to contact with the tapered surface (14), and a diverging embrace cavity (5) defined by the annular rib, and the tapered surface (14) and the flange (15) of the base member (1) are interposingly fixed to the diverging embrace cavity (5).

3. The automobile antenna according to claim 1, wherein the cover member (3) comprises an outer peripheral wall (30) and an inner peripheral wall (31) arranged at a predetermined

space therefrom, and the pad member (2) is provided with an annular projection (220), which extends from a part of a fitting portion (22) being fitted inside the outer peripheral wall (30) and is press fitted between the outer peripheral wall (30) and the inner peripheral wall (31).

4. The automobile antenna according to claim 3, wherein the cover member (3) comprises a waterproof rib (310) on a lower end surface of the inner peripheral wall (31) to bite into an upper surface of the pad member in the vicinity of the annular projection (220).

5. The automobile antenna according to claim 1, wherein the base member (1) comprises through-holes (11) positioned in a plurality of locations to extend through a plate thickness, and recesses (12) coaxial with the through-holes, the pad member (2) comprises roofed bosses (26) fitted into the recesses (12), screw members (4) extend through the roofed bosses (26) and the through-holes (11) into the cover member to be threaded into female-threaded cylinders (32) provided on the cover member (3) whereby the pad member (2), the base member (1), and the cover member (3) are clamped together.

6. The automobile antenna according to claim 1, wherein the pad member (2) comprises on an underside thereof waterproof ribs (27), (28), (29).